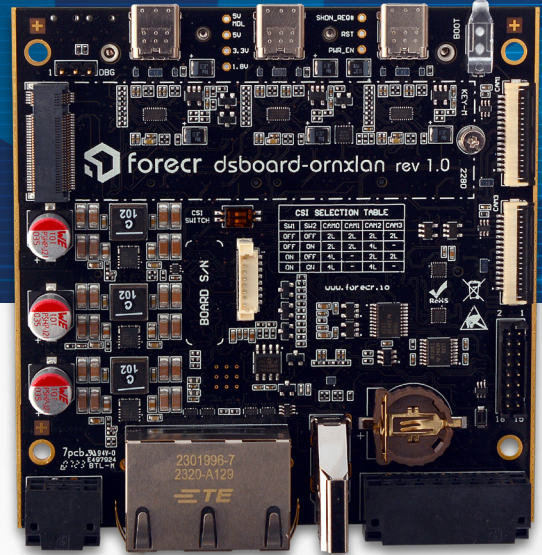




DSBOARD-ORNX-LAN

JETSON ORIN NX & ORIN NANO CARRIER BOARD
with DUAL LAN



HIGHLIGHTS

- › Supports NVIDIA Jetson Orin Nano and Orin NX SOMs
- › Dual Gigabit Ethernet Support
- › 4K Video Display (HDMI 2.0)
- › Industrial IO options (RS232/485, CAN Bus, Digital I/Os)
- › Rich extension options (M.2 Key-E, M.2 Key-B, M.2 Key-M)
- › High Speed Interfaces (Gigabit Ethernet, USB 3.1)
- › Robust power design
- › Wide voltage input range
- › Extended temperature range

TECHNICAL SPECIFICATIONS

Supported Modules	NVIDIA Jetson Orin Nano 4GB / 8GB NVIDIA Jetson Orin NX 8GB / 16GB
Memory	4 GB 64-bit LPDDR5 / 8 GB 128 bit LPDDR5 8 GB 256-bit LPDDR5 / 16 GB 128 bit LPDDR5
Graphics Interfaces	1x HDMI 2.0(max resolution 3840x2160)
Interfaces	2x Gigabit Ethernet 3x USB 3.1 Type-C 1x CAN Bus 1 x RS232/422/485 2x Digital Input 2x Digital Output 2x CSI 4-LANE or 4x CSI 2-LANE
Wireless Communication	WiFi/Bluetooth Connectivity by extension sockets
Power Supply	9-28 VDC
Extension Sockets	1x M.2 Key-E, 1x 5V Fan 1x SPI, 1x I2S, 1x I2C, 1x UART
Mass Storage	2x M.2 Key-M SSD Slot
Ambient Conditions	-25°C ... +85°C
Form Factor / Dimensions	100 mm x 100 mm, 88gr
Operating Systems	Ubuntu Linux 20.04
JetPack Support	JetPack 5.x

DSBOARD-ORNX-LAN is an industrial carrier board designed for harsh environments and applications that demand high processing power and reliability. It is based on the NVIDIA Orin NX system-on-module (SOM), which features multiple NVIDIA Ampere GPU cores and Arm64 CPU cores. The compact design of the carrier board makes it a versatile and flexible solution for a wide range of industrial applications such as autonomous systems, robotics, and intelligent video analytics.

DSBOARD-ORNX-LAN comes with various connectivity options, including dual Gigabit Ethernet, USB 3.1, HDMI, and CAN, enabling seamless integration with a wide range of devices and systems. The dual Gigabit Ethernet support allows for increased data transfer speeds and redundancy in network connections. The NVIDIA Orin NX SOM provides the processing power and capabilities needed to support intensive data processing and analysis.

In addition to its compact size, DSBOARD-ORNX-LAN also features multiple expansion slots for adding peripherals and customizing the system to meet specific requirements. Its wide operating temperature range ensures reliable operation in challenging environments.

Overall, DSBOARD-ORNX-LAN is an effective solution for industrial applications that demand high processing power and a reliable platform. Its advanced features, including dual Gigabit Ethernet support, and compact design make it an ideal choice for applications where space is limited, and flexibility is key.



Transportation



Robotics



Smart Retail



Agriculture



Autonomous Systems

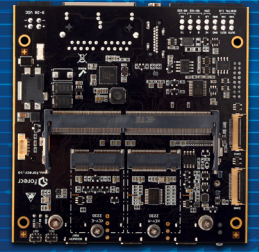


Energy

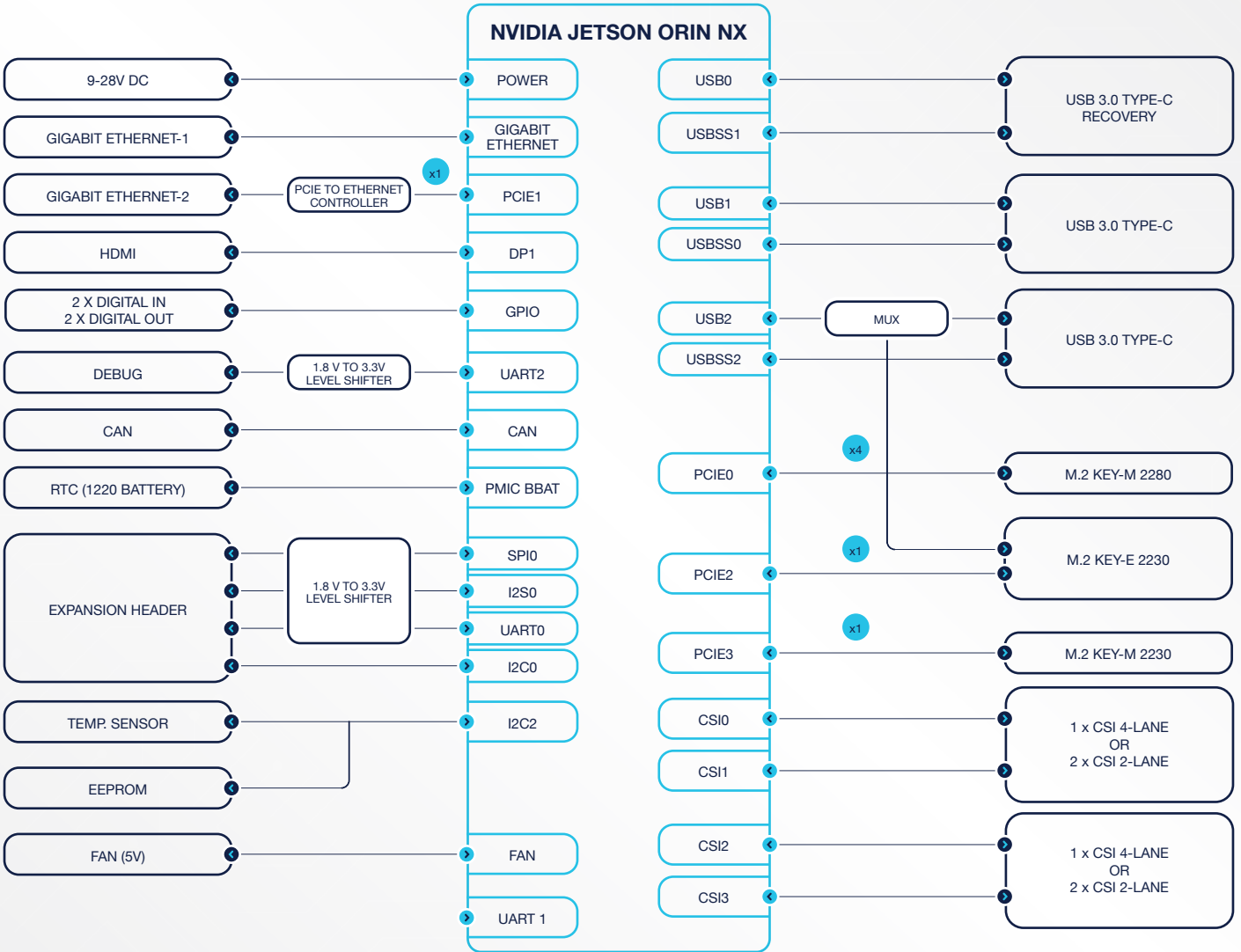


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with DUAL LAN



BLOCK DIAGRAM



ORDERING INFORMATION

DSBOARD-ORNX-LAN-AA	DSBOARD-ORNX-LAN carrier board without SOM
DSBOARD-ORNX-LAN-AB8	DSBOARD-ORNX-LAN carrier board with Orin NX 8GB SOM
DSBOARD-ORNX-LAN-AB16	DSBOARD-ORNX-LAN carrier board with Orin NX 16GB SOM
DSBOARD-ORNX-LAN-AC4	DSBOARD-ORNX-LAN carrier board with Orin Nano 4GB SOM
DSBOARD-ORNX-LAN-AC8	DSBOARD-ORNX-LAN carrier board with Orin Nano 8GB SOM

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